

TILED MEMORY CONFIGURATION FOR MAPPING VIDEO DATA AND METHOD THEREOF

ABSTRACT OF THE DISCLOSURE

A method of mapping motion pictures experts group (MPEG) video information for improved efficiency is presented, wherein image information is stored in blocks of memory referred to as tiles. Tiles are mapped in memory so that adjacent tiles only correspond to different banks of memory. A method and system is provided for organizing and routing multiple memory requests from a plurality of clients to multiple memories. Requests from a plurality of clients, including a plurality of clients of the same type, such as multiple MPEG decoders, are directed to different memory controllers by a router. The memory controllers order the client requests by requests among similar client types. The memory controllers also order the client requests by different client types. The ordered requests are then delivered to memory. Returned data is sent back to the clients.